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File No. 9782/36

1-1-33

P.W.

DEPARTMENT

A CLASS

K

BRANCH

Subject:— Electric grid
Schemes, conditions and
Miscellaneous charges for the supply
of energy of—

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A [K] 195.2

File No. 9782/36

Ed. Sect. Slip 24 A

K-Br

G R., G D., No. 2408, dated 22-5-22.]

Correspondence

DOCKET SHEET (B)

Subject :—

File No. 9782/36P. W. DEPT.K BRANCH.

References :—

Copies from the original file A[C]
Main file for A[A] 1952

Date.	To whom sent.	Notes and instructions.

Bombay Electric Grid System,
Sanction to the conditions and
miscellaneous charges for supply
of electrical energy under the-

GOVERNMENT OF BOMBAY.

Public Works Department

Resolution No. 9782/36.

Bombay Castle, 23rd June 1949.

* Printed as an accomp.
to this G.R.

Letter No. Alg. 397/16470, dated the 20th October
1948, from the Electrical Commissioner with the
Government of Bombay, as under:-

"I send herewith for the approval of Government ---

1) The general conditions* and technical regulat-
ions for the supply of electrical energy and

2) Scale of Service Connection and miscellaneous
charges.

"2. The conditions of supply and Service Connection
and miscellaneous charges are generally in line with the
practice of leading licenses of Bombay Province such
as Bombay Electric Supply and Transport Undertaking,
Ahmedabad, Poona and Surat licences and that of other
Provincial
Governments like Madras Central Provinces and Punjab
who are engaged in the business of supplying electric-
ity.

"3. In view of the ~~xx~~ proposals to set up a
Provincial Electricity Board in the near future under
the relevant provisions of the Electricity (Supply)
Act, 1948, the phrase 'Bombay Electricity Board' has
been used wherever required in place of the words
'Electric Grid Department' or the Electrical
Commissioner

"4. Supply of electricity in Matnagiri is ex-
pected to commence in January, 1949, It would there-
fore be desirable to announce-----

announce the tariff rates, conditions of supply etc. within the next few weeks. I have already submitted to Government my proposals regarding tariffs, vide this office letter No. Jlg. 397/15365, dated the 23rd September 1948. I shall be obliged if formal orders of Government on this and the previous letter are issued simultaneously as soon as possible'.

Read memorandum No. LRM. 31/4818, dated the 27th February 1948, from the Electrical Engineer to Government.

Read memorandum No. PR 3/599, dated the 11th January 1949, from the Electrical Commissioner with the Government of Bombay.

Read Memorandum No L.R.M. 31/6245, dated the 11th January 1949, from the Electrical Engineer to Government.

Memorandum No PR. 3/5157, dated the 30th March 1949, from the Electrical Commissioner with the Government of Bombay.

"It is proposed to have approximately 1,000 copies printed in a booklet form which necessary instructions will be given separately direct ~~at~~ to the Government press. It is therefore requested that the Government press may be advised not to contribute the types until such time as they hear from me. In the meantime, 50 copies of the Government Resolution on this subject may be sent to me please.'.

Resolution:- Pending the formation of the Bombay Electricity Board the general conditions and technical regulations, the scale of service connections and miscellaneous charges proposed by the Electrical Commissioner with the Government of Bombay for the supply of electrical energy under the Bombay Electric Grid System are approved.

2. The Electrical Commissioner should communicate direct to the Superintendent, Government Printing and Stationary, Bombay, the number of ~~xxx~~ copies of the conditions, etc. required by him, in the form of a booklet. Pending the receipt of this communication, the Superintendent, Government Printing and Stationary should keep the types standing.

By order of the Government of Bombay,

Id/-15-7-

K. V. Joglekar.

Deputy Secretary to Government.

G.R.No.9782/ 36, P.W.D. dated the 23rd June 1949.

To.

The Finance Department,

All Department of the Secretariat.

All Commissioners of Divisions.

All Collectors of Districts.

All Superintending Engineers, of Circles.

The Electrical Commissioner with the Government of Bombay (with fifty spare copies of the Resolution).

The Electrical Engineer of Government.

All Executive Engineers of Divisions.

The Accountant General, Bombay.

The Superintending, Government Printing and Stationery, Bombay.

No.

of 1949.

Copy forwarded for information and guidance to

Accompaniment to Government Resolution, Public Works

Department, No. 9782/36, dated the 23rd June 1949.

THE BOMBAY ELECTRIC GRID DEPARTMENT.

Conditions for supply of Electrically Energy.

(Note: 'Department' means the Bombay Electric Grid Department and/or its representative).

1. Application for Supply-(a) Application for a supply or an additional supply of electrical energy must be made on the form attached hereto (Annexure A) copies of which are obtainable free of cost at any office of the Department. The application must be signed by the consumer.

Consumer.

Any assistance or information required in filling up the form will be given to the applicant at the local office of the Department.

b) A consumer who is not the owner of the premises he occupies, shall furnish in writing the consent and permission of the owner for the service connection on or within such premises.

c) Where the consumer has no frontage abutting a public street, and where the service line has necessarily to cross over or go under other property, the consumer shall obtain the necessary way leaves and permission at his own expense; and continue them as long as supply is to be maintained. Should, however, the way leaves or permission be withdrawn, the supply will be cut off forthwith. Any extra expense incurred in laying the service line and maintaining the same in accordance with the way leaves shall be at the expense of the consumer.

~~xxxxxxx~~

2. Notice before connection:- An intending consumer must give at least one month's notice and a consumer requiring H.T. bulk supply must give not less than six months notice.

3. Service Line:- (a) Upon receipt of the application, an Engineer of the Department will inspect the premises and fix the point of entry of the service line and the position of the service cut-outs and meters in consultation with the consumer, and/or his Licensed Electrical Contractor, prior notice of which will be sent to the consumer. The position of the supply service, main cut-out or circuit breakers and the meter shall be so fixed as to permit ~~xxxxxx~~ easy access to the employees of the Department at any time.

The Department will in no case fix its apparatus, meters or any of its property in a place which entails entry by its employees into purdah or religious quarters.

substituted
vide corrigendum
No. 9782/36,
dated the
13-1-50.

b) Having agreed on the position of the service, as ~~x~~
above, the Department will submit to the applicant an
estimate of the cost of laying the services line. The
quotation having been accepted the applicant shall
deposit the amount of the estimate with the Deptt.
before the work of laying his service line is taken
in hand. The amount deposited will be subsequently
adjusted, if necessary, on completion of the work on
the basis of actual costs.

c) The Department shall lay free of charge up to 100
feet of service line from its nearest distributing
main outside the limits of the property in respect of
which the requisition is made. Any length in excess of
100 feet as defined above shall be paid for by the
applicant.

d) Other conditions being equal service lines shall
as far as possible be laid in the order of the dates of
receipt of the deposit.

e) The service line, notwithstanding that a ~~part~~
portion of the cost has been paid for by the consumer,
shall remain the property of the Department by whom it
is to be maintained.

4. Point of Supply:- Unless otherwise agreed to, the
point of supply shall be at the out going terminate of
the Department's-

- i) ~~Fix~~ Meters in the case of L T. consumers.
- ii) Control switchgear that may be installed in the
consumer's premises under conditions 6(a) hereunder.

5. Supply at High Tension:- A consumer requiring
high tension bulk supply must provide and maintain at his
expense a locked and weather proof enclosure of a
design to be approved by the Department for purposes--

purposes of housing the Department's terminal high tension switchgear and metering equipment. Such enclosure may also be used by the consumer for housings his own H.T. switchgear, transformer and other apparatus with the written permission of the Department, but such an enclosure shall not be used for any other purpose. The Department shall have access to the enclosure at all times without notice for purpose of inspecting, testing and maintenance of the Department's apparatus.

6. *Departments Supply Mains and Apparatus :-

(a) The Department shall provide its own meter boards, cut-outs for low tension consumers, and oil circuit breakers or high tension fuses for high tension consumers unless otherwise specified and there shall remain the property of the Department, and must on no account be operated, handled or removed by any one who is not in the employ of the Department. Likewise the seals, name-plates and distinguishing numbers or marks of the Department, affixed on the said property shall not be interfered with on any account, or broken, removed or erased by employees of the Department duly authorised for the purpose.

b) The Department may in the case of H.T. consumers grant permission in writing, on account, or broken, removed or erased except by employees of the Department, duly authorised for the purpose.

b) The Department may in the case of H.T. consumers grant permission in writing, on application by the consumer, permitting him to operate the Department's terminal switches, fuses or circuit breakers for purposes of isolating consumer's H.T. apparatus in case of emergency provided such operation by the consumer does not affect continuity of supply to other consumers.

c) Every consumer shall compensate the Department for any damage and cost of making good any damage caused to the mains, apparatus or instruments or any other property of the Department in the consumer's premises-----

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premises occasioned by reason of any act, ~~xx~~ neglect or default of the consumer, his servants or persons employed by ~~xxx~~ him, and in addition, shall pay such ~~penalties~~ penalties prescribed or lawfully due to the Department for continued, unauthorised interference with the Department's property or scales.

d) The Department shall have the right to use meters ~~xx~~ and apparatus provided under condition (a) and (b) above for a similar to other premises in the neighbourhood, provided the supply to the consumer is not thereby affected. Permission to lay cables under, across or over the consumer's premises, ~~per~~ for fixing apparatus upon the said premises by the Department shall deemed to be implied and vested in the Department.

7. Wiring on Consumer's Premises:- (a) For the protection of the consumer and the public in general, it is necessary that the wiring on the consumer's premises should conform to the Indian Electricity Rules, 1937, and the rules of the Fire Insurance Company in terms of which the building is insured and be carried out by a Licensed Electrical Contractor, as soon as, the consumer's installation is completed in all respects and tested by the Consumer's Contractor, the should submit to the Department a Wiring Contractor's completion and test report. A form for this purposes shall be supplied at any local office of the Department. It is important that the conditions named are fully complied with, as otherwise there will be a delay in obtaining the supply.

b) As required by rule 48 of the Indian Electricity Rules, 1938, no ~~x~~ electrical installation work (including additions, alterations, repairs and adjustment to existing installations) except such requirement of lamps,

lamps, fans, fuses, switches and other component parts of the installation as in no way alters the capacity and character of the installation, shall be carried out upon the premises on behalf of any consumer or owner for the purposes of supply of energy to such consumer or owner, except by an Electrical Contractor licensed by Government in this, behalf and under the supervisors of a person holding a certificate of competency issued by Government. Any person committing breach of rule 48 shall ~~xxxxxxx~~ render himself liable to punishment under rule 123 of the said Rules.

c) Provision of rule 51 of the Indian Electricity Rules, 1937, should be complied within consumer's installation by not inserting a cut out link or switch other than a linked switch arranged to operate simultaneously the earthed and live conductors, if any conductor of the consumer's installation is to connected to the neutral conductor of the Department's system.

8. Consumer's Apparatus-(a) Low Tension Consumers.-In the case of a low tension consumers, the consumer must in all cases provide linked quick break main switches and a main fuse on each pole other than the earthed neutral, which must be erected within three feet of the Department's meter board, or in such other position as shall be approved by the Department.

b) High Tension Consumers-In the case of high tension consumers-
i) requiring a supply of 500 Kw and above, suitable circuit breakers must be installed on the supply side fitted with automatic overload protective devices so adjusted that they operate before the overhead protective devices in the Department's terminal cubicle and further must be of sufficient ~~xxx~~ rupturing capacity to be specified by the Department-to protect the consumer's installation under short circuit conditions.
ii) requiring a supply under 500 Kw consumers need not provide circuit breakers on the high tension side.

But in either case, suitable automatic circuit breakers of a make

Department must be installed on the low tension side of the transformers or on each feeder.

H.T. consumers must in their own interests consult the Department before ordering H.T. switchgears or apparatus and deciding on the lay-out thereof. They shall strictly comply with all directions specifications, clearances and standard lay-out prescribed by the Departments from time to time.

9. Inspection and Testing----(a) Low Tension Consumers.- (i) Upon receipt of the test report, the Department shall notify, to the consumer the time and day ~~am~~ when the Department's representative proposes to inspect and test the installation. It will then be the duty of the consumer to arrange that a representative ~~any information required by him concerning~~ of the Wiring contractor employed by him, is present at the inspection to give the Department or its representative any ~~information~~ information required by him, concerning the installation.

ii) No connection shall be made until the consumer's ~~has~~ installation has been inspected and tested by the Department and found satisfactory. No ~~any~~ charge shall be made for the first test by the Department but subsequent tests due to faults found at the initial test or failure of the contractor's representative to keep the appointment as indicated in sub-paragraph (i) shall be charged for in accordance with the schedule of service and miscellaneous charges for the time being in force. The Department does not accept responsibility with regard to the ~~a~~ maintenance or testing of ~~a~~ wiring on consumer's premises.

(iii) Before taking the insulation test of the install-

installation, the ~~xx~~ wiring must be complete in every respect. All fittings such as lamps, fans, cookers, motors, etc. must be connected up, fuses ~~inserted~~ inserted and all switches in the 'ON' position before the ~~x~~ tests are carried out. Temporary wires or fittings or dead-ends should not be included in the installations and no part of the work should be left incomplete. The insulation resistance of the entire installation to earth shall be tested from the installation side of the Department's terminals.

(iv) The Department shall not connect the conductors and fittings on the consumers premises with its works unless it is reasonably satisfied that the connection will not at the time of making connection ~~cause~~ cause a leakage from those conductors and fittings exceeding one-five thousandth part of the maximum supply demanded on the consumer's premises.

(v) A pressure of 500 volts will be applied between the whole installation and earth and the installation resistance after one minute's electrification shall not be less than the total number of Ohms arrived at by dividing the number ~~expressing~~ ^{~~10,000,000~~ in the} dry season and 5,000,000 in the rainy season by ^{the number} the maximum electric current in amperes required.

vi) The test between the poles should give at least half the result of that to 'earth'

b) High Tension consumers:- ~~xx~~ In the case of High Tension consumers:-

i) All low Tension wiring and equipment will be tested in accordance with the foregoing condition.

ii) Manufacturer's test certificates in respect of all H.T. apparatus shall be produced, if required.

iii) In addition, the Department may test the H.T. installation by applying standard test voltage in accordance with I.E.E. Rules.

10. Extension and Alterations:- Should the consumer at any time after the supply of energy has been ~~commenced~~ commenced, desire to increase the number or size of lights, fans, ~~motors~~, etc., on his premises or in any way to alter the position of his wiring

wiring therein, notice thereof shall be sent in writing to the Department whose representative will call and inspect the alteration and if necessary changes the meters and fuses and alter the service line. A test report signed by his writing Contractor ~~shall~~ shall be submitted by the consumer and the cost of the alterations to service line shall also be borne by him. Failure to give such notice may derange the supply system and will render the supply liable to be summarily discontinued. During such times as alterations additions or repairs are being executed the ~~supply~~ supply to the circuit which is being altered, added to or repaired must be entirely disconnected and it shall remain disconnected until the alterations, additions or repairs have been tested and passed by the Department.

11 ~~Failure of Supply~~ Failure of Supply--(a) The Department shall not be liable for any claim for loss, damage or compensation whatsoever arising out of failure of ~~supply~~ supply, unless otherwise agreed to the country, but in no case will this agreement extend to cases when such failure is attributable to orders of civil or military authorities, break-downs of machinery and plant, or causes directly or indirectly due to war, mutiny, civil commotion, riots, strike, lockout, fire, flood, tempest, lightning, earthquake, or other forces, accident or cause beyond the control of the Department.

Otherwise the supply shall be continuance .

b) Should at any ~~time~~ ^{time} the Department's main service fuse or fuses fail, notice thereof should be sent to the nearest service station of the Department

Department. Only authorised employees wearing the badge of the Department are permitted to replace these fuses in the Department's out. outs. Consumers are not allowed to replace these fuses and they will render themselves liable to a heavy penalty if the Department's apparatus are broken. If the failure of supply is due to any cause other than the Department's apparatus, the consumer will be charged for the attendance of the fuse man in accordance with the Schedule of service and Miscellaneous charges for the time being in force.

12. Access to Premises and Apparatus:- The authorised employees of the Department are entitled by statute at all reasonable times, to enter upon the premises of the consumer to which energy is supplied and for the purpose of inspecting and reading meters and for other purposes connected with apparatus belonging to the Department on the consumer's premises or for doing all things necessary or incidental to proper continuance and maintenance of supply to the consumer.

13. Meters:- Accuracy of .-- The amount of energy supplied to a consumer shall be ascertained by means of a correct meter which may be hired from the Department or purchased by the consumer at the latter's option. In the latter case, the make and type of the meter shall be subject to the approval of the Department. Where the meter is hired from the Department, the Department shall ~~keep~~ keep the meter correct and in default of its doing so, the consumer shall for so long as the default continues, cease to be liable to pay for the hire of the meter.

Where the meter is the property of the consumer, he shall keep the meter correct and in default of his doing so the Department may cease to supply through the meter after giving him 7 days' notice.

Should the consumer dispute the accuracy of the Department's meter/meters, he may, upon giving notice and paying ~~tax~~ the

the prescribed fee, have the same tested by the Department or the Electrical Inspector of Bombay Province in accordance with section 26 of the Indian Electricity Act, 1910. In the event of the meter being tested and found to be incorrect, the cost of testing and all reasonable expenses incidental thereto shall be met by the party to whom the meter belongs and the amount of the bill adjusted in accordance with the result of test taken with respect to the meter readings of the 3 months prior to the month in which the dispute has arise due regard being paid to the conditions of working, accuracy, etc., during the month under dispute and during the previous 3 months. In the event of the testing ~~and the~~ being undertaken by the Electrical Inspector and the meter being found to be incorrect the period during which the meter shall be deemed to ~~have~~ have been incorrect and the amount of energy supplied to the consumer during the period shall be decided by the Electrical Inspector whose decision shall be final.

The Department shall at any reasonable time and on informing the consumer of its intention have access to and be at liberty to inspect and test and for that purposes, if it thinks fit, take off and remove any meter to its laboratory.

b) Installation of .-. The Department shall supply a meter, if required by the consumer to measure the energy supplied to him for the purpose of billing, -- at a monthly rental as laid down in the Schedule of miscellaneous charges. Meters will ordinarily be installed at the point of entry of supply to the building.

c) Reading of.

readings of meters will be taken by the employees of the Department once in each month, or at such other intervals or times it shall think expedient, and such meter readers ~~shall~~ shall have access to the consumer's premises at all reasonable times for the purpose of such reading. The readings of each meter shall be entered by such reader in the ~~xxx~~ meter card to be attached to such meter which shall be open to the inspection of the consumer.

d) Security of.- The Department may require security against loss or damage to the meter hired to the consumer, equivalent to the price of the meter. It is ~~recommendation~~ recommended that consumers should provide a strong teak wood box or other covering for the meter as a precautionary measure against damage.

e) Subtraction.-For loads not exceeding 2 K W. subtraction meters to main meters may be installed in the consumer's premises ~~energy~~ for metering energy supplied to :-

i) Refrigerators.

ii) Storage type water-heaters.

iii) Small electrical appliances.

14. Security and agreement:- The Department may require any consumer to enter into ^a formal contract in the form prescribed by the Department, and further to deposit security in cash or in Government Promissory notes or other approved securities for the payment for energy supplied; or alternatively may require him to deposit security only. This deposit will be returned at the termination of the contract.

In the event of no formal contract having been entered into between the Department and the consumer, the latter after once the supply of electricity has commenced, shall be bound ~~to~~ by the terms and conditions of supply herein set forth. The consumer shall not refuse to tender an agreement, if so required upon by the Department at any time after the supply is commenced notwithstanding that the same was not entered into before the supply was commenced. In such an event the date of commencement

commencement of contract shall be the date of commencement of supply to the consumer.

If any consumer terminates his agreement within the period of the agreement (or where no formal agreement is tendered, if the supply is discontinued within the period which would have been applicable if an agreement had been tendered) he shall be liable to pay the minimum charge for each month short of the period specified in the agreement.

The Department shall be at liberty at any time to apply any ~~security~~ security so deposited towards payments or satisfaction of any money which shall become due or owing by the consumer. The Department shall also be at liberty to demand enhanced security deposit from the consumers at any time during the life of the contract. The consumer may at any time with the previous consent of the Department transfer the contract and its liabilities to any other person approved by the Department.

The Department will allow interest on deposits of Rs 50 ~~lak~~ or more at the rate equal to the Post Office Saving Bank rate in force from time to time. On deposits made in Government securities the ~~interests~~ interests accruing thereon will be collected periodically and credited to the depositor's account, less 2 per cent, which will be retained by the Department to cover the cost of collection etc. when Government securities are deposited the amount of the deposit shall be calculated at the current market value of the said securities and not upon their face value. No interest will be allowed on deposits lodged against the cost of service lines as the account is only of a temporary nature.

15. Assignment or Transfer of Agreement:- The consumer shall not without previous consent in writing of the Department assign transfer or part with the benefit of his agreement with the Department nor shall the consumer in any manner part with or create any partial or separate interest thereunder.

16. Resale of Energy:- The consumer shall not resell energy purchased in bulk from the Department to a third party except as follows:-

- i) If he holds a sanction or license for distribution and sale of energy,
- ii) or under a special contract permitting him resale of energy regulated in accordance with the provisions of the contract.

17. Notice of Removal-(a) L.T. Consumers-Consumers about to vacate or sub-let their premises shall give to the Department a full 7 days' notice in writing as to whether the premises should be disconnected or only the meter should be read and the bills submitted otherwise the Department cannot guarantee that the meter reading will be taken on the required date. Failing such notice, the consumer will be held responsible for all energy consumed on the premises and for the safety of the Department's apparatus installed for him on the premises until the expiration of 48 hours from the first working date after notice of removal in writing has been received at the office of the Department.

b) H.T. Consumers.- In the case of H.T. consumers above provision will apply only in so far as they are not inconsistent with the provisions of their agreement; and where they are inconsistent, the provision of their respective power agreements will always prevail.

18. Service of Notice:- (i) Any notice by the Department to the consumer shall be deemed to be duly given, if served in writing addressed to the consumer delivered by hand at, or sent---

sent by registered post to, the address specified in the consumer's application or as subsequently notified to the Department.

ii) Any notice by the consumer to the Department shall be deemed to be duly given if served in writing addressed to the Department and delivered by hand at, or sent by registered post to, the local office of the Department.

19. Payment of Bills.-a) Bills should be paid at the Department's Office within 15 days from the date of their presentation.

b) Any complaints with regard to the accuracy of the bills shall be made in writing to the Local Office of the Department and the amounts of such bills shall be paid under protest within the said period of 15 days. The amounts of bills paid under protests will be regarded as advances to the credit of the consumer's account until such time, as the bills in dispute have been finally settled.

c) If the consumer to pay ~~the~~ any bill presented to him within the said period of 15 ~~years~~ days, the Department shall be at liberty to take action under the sub-section (1) of section 24 of the Indian Electricity Act, 1910, and to cut off the supply after giving such consumer not less than 7 days' clear in writing without prejudice to his right to recover the amount of the bill by suit. Where, however, any difference or dispute has been referred under the Act to an Electrical Inspector or before notice as aforesaid has been given by the ~~the~~ Department, the Department shall not be at liberty to cut off the supply for failure to pay the bill except where the Department has made the request to the consumer that the amount in dispute ~~where the Department~~ should be deposited with the Electrical Inspector/and

consumer has failed to comply with such request.

20. System of Supply:-The Department's declared pressures of supply shall be generally as follows:-

i) Low Tension supplies.

Alternating Current , single phase, 50 ~~xxxx~~ cycles, 230 volts between phase and neutral,

ii) Medium Tension supplies:-

Alternating current, three phase, 50 cycles, 400 volts, between phases.

iii) High Tension supplies:-

Alternating currents three phase, 50 cycles, 11000 volts between phases.

H.T. Supply at pressures other than ~~xxxxxxx~~ specified may be arranged and declared in writing in the consumer's agreement. Supply for lighting and small power purposes will be at low and medium pressure and for w large power, where monthly maximum ~~£~~ demand exceeds 100 K.W. and bulk requirements, the supply will be at high tension.

21. Classification of Installation:-

a) Single-phase, 2 wire, 230 volts-.

i) General supply not exceeding 10 amps,

ii) Motive Power installations not exceeding I.B.H.P. in the aggregate.

b) Three phase, 4 wire, 400 volts between phases and 230 volts between phase and neutral. General supply exceeding 10 amperes.

c) Three phase, 3 wire, 400 volts between phases. Motive powers installations exceeding I.B.H.P. in the aggregate.

d) Three phase, 3 wire, 11000 volts between phases.

Motive power installations exceeding 100 K.W. of maximum demand.

Note:-The above classification is for the arrangement or grouping of consumers' wiring and not for determining the size of the service line.

22. General Wiring Conditions:-

a) Mains.-- The consumers' mains shall in all cases be brought---

brought back to the Department's point of supply and sufficient cable shall be provided for connecting up with Department's apparatus.

b) Switches and Fuses.- The consumer shall provide proper linked quick break main ~~wa~~ switches of requisite capacity to carry and break current in each conductor near the commencement of supply. All the consumer's switches should be on the live wire and the letter 'N' should be painted on the wooden board directly underneath the neutral conductor where it leaves the consumer's main ~~switch~~ for connecting up to the meter.

No single pole switch or cut-out should remain inserted in any neutral conductor.

c). Balance of Installation.- If the connected load of any installation exceeds 10 amperes at 230 volts, the installations shall be wired on the group system, ~~separately~~ separately neutral wires being brought back in each case to the Department's point of supply. ~~An~~ approved form of linked switch~~es~~ (single pole) with two single pole fuses shall control each main circuit. The lamps, ~~a~~ fans or any other apparatus of which the installation consists shall be so grouped that under normal working conditions the current will be balanced and no current will be flowing in the neutral wire.

d) Low and Medium Pressure Supply:- with low and medium pressure supplies, i.e. 230 volts and 400 volts, the Department's meter and service cutouts, if not iron-clad and ~~earthed~~ earthed, shall be enclosed in a strong wooden box suitably ventilated provided with a hasp, staple and lock. All wires between which a difference of potential of * 250 volts or over exists shall be made inaccessible to unauthorised persons or enclosed in an ~~earthed~~ earthed metallic casing or conduit. A 'CAUTION'

board printed in Hindi, regional language, and ~~original~~
English shall be affixed thereto.

e) Aerial Mains.— In order to save the expense of a long underground service on private property, a consumer may, with the Department's approval, erect a pillar on that portion of his property which is nearest to the Department's supply mains into which the service shall be laid and from which the consumer shall run overhead mains to his premises. These overhead mains shall constitute a portion of his installation and shall be laid in compliance with the Indian Electricity Rules 1937. An efficient lightning arrest may be fixed at the commencement of the overhead line at the consumer's cost, should ~~he~~ he desire the same as an additional protection for his installation.

f) Earthing.— Gas pipes shall on no account be used for earthing purposes. All wiring shall be kept as far as possible from gas and water ~~pipes~~ pipes.

g) Domestic Heating and Cooking.— A special circuit for heating and cooking where necessary shall be run from the Department's point of supply. Wall plugs used on these circuits shall be of the concentric type or three pin type, the third pin connected to 'earth'. Two pin plugs or lighting sockets shall not be allowed.

h) Plugs.— All plugs shall be ~~not~~ switched on the live wire and ~~not~~ on the neutral.

i) Wiring.— Single leads shall not be allowed to be ^{run} separately in iron conduit.

j) Motors.— Motors shall be provided with control gear so as to prevent satisfactorily the maximum current demand from the consumer's installation exceeding the limit given in the following schedule at any time under all possible con-

ditions. Failure to comply with these regulations will render the consumers liable to disconnection from the-----

the supply on account of the interference
with the supply to other consumers.:-

Nature of Supply.	Size of Installation.	Limit of Maximum Current Demand.
1	2	3
Single phase	-----Up to and including 1 B.H.P.	6 X full load current.
Three phase.	Up to and including 3 B.H.P.	3 X full load current.
	Above 3 B.H.P. and up to and including 10 B.H.P.	2 X full load current.
	Above 10 B.H.P. and including 50 B.H.P.	1½ X full load current.
	Above 50 B.H.P.	1½ X full load current.

Motor of about 1 B.P.H. shall be wound for 3 phase 400 volts ~~between~~
between phases.

Motor circuits shall be controlled by a triple pole switch
protected by a no-volt release and T.P. fuses (or overload
release). It is important that the release should be maintained
in thorough working order. Wiring for motors shall be run with
all three phase wires bunched in a single metallic conduit,
which shall be efficiently earthed throughout and connected to
the frame of the motor from which two separate and distinct
earth wires shall be run. The minimum size of the earth wire
permitted is No. 10 or 2/14 S. W.G. Installation of all ~~motors~~
motors shall comply in every respect with the Indian Electricity
Rules 1937.

Intending consumers are advised to consult the Department be-
fore ordering their motors as in some cases, dependant on the
location and conditions of working it may be ~~practa~~ practicable
to relax the rule limiting the starting current.

k) Power Factor of Apparatus.- The Department reserves the right to refuse to supply any motor or installation where the demand shows an average power factor of less than 85 per cent.

23. Definition of connected Load.- Connected horse-power shall be considered as the maximum total horse-power in motors which might be connected to the mains and utilised at any one time.

24. Prejudicial use of Supply.-- (a) The consumer shall not keep connected to the Department's supply system any apparatus which the Department may deem to be ~~like~~ likely to interfere with or effect injuriously ~~ex~~ the Department's supply to other consumers.

b) The consumer shall not, except to the extent herein prescribed, keep un-balanced the loading on the ~~three~~ three phases of the supply taken by him from the Department, the maximum permissible difference in current between any two phases being 5 per cent.

c) The consumer shall not make such use of the supply given to him by the Department as to act prejudicially to the Department in any manner whatsoever.

25. Discontinuance of Supply.- The Department reserves the right to discontinue supply to a consumer on giving 24 hours' notice in writing if there is reason to believe that the consumer is contravening any of the ~~agreements~~ provisions of the Act or of these conditions of supply, or committing a breach of his agreement, ^{with the Dept} or in the event of the consumer failing to pay any account due to the Department, or in the event of the consumer's bankruptcy or the execution of any assignment for the benefit of the consumer's creditors. or if the consumer is a limited company, in the event of compulsory or voluntary liquidation.

26. Interpretation.- These conditions shall be read and ^Scontrued as being subject in all respects to the provisions of the Act and to the provisions of any other law relating to the supply of electricity for the time being in force.

And further noting contained in these conditions shall abridge or

abridge or prejudice the rights of the Department and the consumer under any Central Act or the Provincial Act or rules made thereunder, or the power of the Provincial Government to relax in individual cases on its merits at its discretion any or all of the foregoing conditions.

And further the Department reserves the right at any time to amend, cancel or add to any of these conditions and Schedules or service and Miscellaneous charges.

-----us

FORM OF APPLICATIONS FOR SUPPLY OF ELECTRICITY.

TO

THE ELECTRIC GRID DEPARTMENT.

I/We hereby require you to supply electrical energy to the premises owned/ occupied by me/us hereinafter described.

2. I/We hereby agree to pay for the said energy, service connection and other dues including the deposit of such security as may be demanded in accordance with the rates and conditions of supply of the Department in force from time to time and further declare and agree to take a supply of energy ~~of~~ for the undermentioned purposes for my/our bona fide use for a period of not less than two years from the date of commencement of the supply.

3. This requisition is for *:-

a) A new service (b) A re-connection, (c) an alteration to my existing Installation;

d) A temporary service; (e) A change of name from Mr.....

4. Description of the premises:-

*House No.

*Land Survey No.

Street

Town/Village.

District.

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wner's name.

wner's adress.

lease strike out itemsnot available.

. My/our requirements are as follows:-

ncandescent Lamps.	Fans.	Pul _s ,Heaters etc.	Motors.	Total Demand
--------------------	-------	-----------------------------------	---------	-----------------

No. Wattage of each.	No. Wattage of each	NO. Wattage of each	No. B.H.P. of each	K.W.
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6. The wiring will be carried out by:-

Name of licensed wiring contractor:-

His Licence No:-

His address:-

Date.....

.....
Signature of applicant.

Name of applicant
(in black letters) -----

Occupation-----

address-----

Scale of Miscellaneous and General Charges.

1. Service Connection -- (a) The Department shall lay free of charge up to 100 ft. of service line from its ~~near~~ nearest distributing main outside the limits of the property in respect of which the requisition is made.

For the rest of ~~h~~ the service line, the consumer shall pay the actual cost of materials and labour plus fifteen per centum to cover overhead charges.

b) Extension or addition to meet increased demands will be charged on the a same basis.

In each case the consumer will be furnished with an estimate of cost and the amount of this is payable in advance. On completion of the work, a bill for the actual amount payable will be forwarded to the consumer and any difference must be paid or refunded as the case may be. The service connection charges are payable in advance before this work is carried out.

2. Reconnection:-

a) Low Tension Service-

At cutouts..... Rs 3.

At overhead mains. Rs5.

At underground mains...Rs25.

b) High Tension Service--

Special charges according to condition of load.

c) If the consumer is reconnected within twelve months from the date of last reconnection, 50 per cent. will be added to the foregoing charges.

3. Meters.

a) Hire of a single phase meter. 8 annas per meter per month.

Hire of a polyphase meter. Re.1per meter per month.

Hire of a demand or special type or

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H.T. metering equipment.

2½ pies per month per rupee of
of cost of equipment, adjusted
to the next higher rupee.

Note. For the first month of service connection, the meter
rent will be proportionate to the number of days in the
month for which current is ~~exm~~ supplied. For the month
in which the meter is removed on or after disconnection of
a service, and/or installed afresh on reconnection the
meter rent will be proportionate to the number of days in
the month during which the meter remains on the premises
of the consumer. Such proportionate charges will be rounded
to the nearest anna.

b) Changing or moving meter board. Actual cost plus ¹⁵ per cent.
c) For changing meter only at the Rs 5.
request of the consumer where it
is not necessitated by increase
in consumption and demand
permanently.

d) Testing meter, if it should be proved to be
correct within the limits laid down
by the rules.

Single phase meter -----Rs5

Polyphase meter-----Rs10.

Demand or special type Rs25.

e) Resealing of meters, MD indicators, cutouts Rs 2
and instruments of the Department in the
consumer's premises, if found broken.

f) Replacement of meter cards found to be 4 annas per ~~card~~ card.
~~card~~ missing on consumer's premises.

4. Testing Installations,.-The first test and inspection of
a new installation or of an extension to an existing installation
shall be carried out free of charge but should any further
test, and /or inspection be found necessary owing to any fault
in the installation or to non ~~xxx~~ compliance with ~~the~~ the

27 27

with the conditions of supply, the charge payable in advance, for each additional test and/or inspection shall be Rs 10 .

5. Service Calls.

a) Charge for attendance of fusesman where the failure of supply is due to a fault in the consumer's installation. Re 1

b) Charge for attendance of fusesman at consumers premises during any function (Maximum 6 hours)

Rs 5.

6. Temporary Service.- The ~~taxi~~ actual cost of the service (labour and materials plus 15 per cent. for ~~provision~~ provision) shall be recovered from the consumer. When the service is removed the labour cost of dismantling shall be charged to the consumer, who will be allowed ~~to~~ credit for all materials returned in serviceable condition at the actual cost less 25 per cent. depreciation for the first month or part thereof and 6½ per cent. for each subsequent month or part thereof. A deposit will be taken prior to the commencement of apply to cover the above charges and adjustments, if any, effected after the service has been removed.

7. Security Deposit against payment of monthly bills.-- When required by the Department to do so, the consumer shall deposit security, the amount of which shall be approximately equivalent to 3 months' estimated consumption of energy on the consumer's premises and in no case less than Rs 10 per 0.5 K.W. connected for a lighting installation and Rs 15 per B.H.P. connected for a motive power installation.

8. Miscellaneous works--The charges payable in advance for any work which the Department may undertake for the

consumer and which is not included in the foregoing schedule, shall be the actual cost of labour and materials plus 15 per cent to cover overhead charges. Estimates will be submitted , when necessary.'

Id/-
15-7-49.

Bombay Electrical Grid System,
sanction to the conditions and
miscellaneous charges for supply
of electrical energy under the

Government of Bombay,
Public Works Department,
Corrigendum No. 9782/36,
13th January 1950.

For the word 'Board' occurring in conditions Nos. 3(b)
and 6 of the conditions for supply of electrical energy
by the Bombay Electric Grid Department, printed as an
accompaniment to Government Resolution, ^{Public} ~~Grid~~ Works
Department, No. 9782/36, dated the 23rd June 1949, substitut-
ute the word 'Department'.

By order of the Governor of Bombay,

Id/-

21-1-50.

K. V. Joglekar.

Deputy Secretary to Government.

To.

The Finance Department.

All Department of the Secretariat.

~~All Departments of the~~

All Commissioners of Divisions.

All Collectors of Districts .

All Superintending Engineers of Circles.

The Electrical Commissioner with the Government.
of Bombay.

The Electrical Commissioner with the Government,
of Bombay

Electrical
The Engineer to Government.

All Executive Engineers of Divisions.

The Accountant General, Bombay.

The Superintendent, Government Printing and Stationery,
Bombay.

No. of 1950.

Copy forwarded for information and guidance to---

13-1-51.

Bombay Electric Grid
System:
Sanction to the conditions
and miscellaneous charges
for supply of electrical
energy under the---

Government of Bombay,
Public Works Department.
Corrigendum No. ~~(Bombay No. 1)~~ 9782/36.
Bombay Castle (Bombay No. 1),
22nd February 1951.

CORRIGENDUM

For the figure '230' occurring in line 4 of sub-
clause (d) of Section 22 of the Conditions for supply
of electrical energy by the Bombay Electric Grid Dep-
artment, printed as an accompaniment to Government
Resolution, Public Works Department, No. 9782/36, dated
the 23rd June 1949, substitute the figure '230'.

By order of the Governor of Bombay,

Id/-
22-2-51.
K.V. Joalekar.

Deputy Secretary to Govt.

To.

The Finance Department.

All Departments of the Secretariat.

All Collectors of Districts.

All Superintending Engineers of Circles-

The Chief Engineer, Bombay Electric Grid.

The Electrical Engineer to Government.

All Executive Engineers of Divisions.

The Accountant General, ~~Government~~ Bombay.

The Superintendent, Government Printing Press, Bombay.

No. of 1951.

Copy forwarded for information and guidance to.-

Id/-

22-2-51.